

Form 1449 (Modified) Supplemental Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)	Atty Docket No. UCALP031 Applicant: Richard A. Mathies, et al. Filing Date June 23, 2005	Application No.: 10/540,658 Group 1637

U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	A1	5,587,128	12/1996	Wilding et al.			
	A2	5,856,174	01/1999	Lipshutz et al.			
	A3	6,073,482	06/2000	Moles, Donald R.			
	A4	6,521,188	02/18/03	Webster			
	A5	6,786,708	09/07/04	Brown et al.			
	A6	2001/0014091	01/2004	Duck et al.			
	A7	2002/0098097	07/25/02	Singh			

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
	B1	WO 00/40712	07/2000	PCT				
	B2							

Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	C1	Grover et al., <i>Practical Valves and Pumps for Large-Scale Integration into Microfluidic Analysis Devices</i> . Micro Total Analysis Systems (Nov. 2002), 2 pages
	C2	Soper, S.A., D.C. Williams, Y. Xu, S.J. Lassiter, Y. Zhang, S.M. Ford, and R.C. Bruch, <i>Sanger DNA sequencing reactions performed in a solid-phase nanoreactor directly coupled to capillary gel electrophoresis</i> . Anal. Chem., 1998. 70: p. 4036-4043.
	C3	Hultman, T., S. Bergh, T. Moks, and M. Uhlén, <i>Bidirectional solid-phase sequencing of in vitro-amplified plasmid DNA</i> . BioTechniques, 1991. 10: p. 84-93.
	C4	Nakano, H., K. Kobayashi, S. Ohuchi, S. Sekiguchi, and T. Yamane, <i>Single-step single-molecule PCR of DNA with a homo-priming sequence using a single primer and hot-startable DNA polymerase</i> . Journal of Bioscience and Bioengineering, 2000. 90(4): p. 456-458.
	C5	Mitra, R.D., V.L. Butty, J. Shendure, B.R. Williams, D.E. Housman, and G.M. Church, <i>Digital genotyping and haplotyping with polymerase colonies</i> . Proceedings of the National Academy of Sciences of the United States of America, 2003. 100(10): p. 5926-5931.
Examiner /Young J. Kim/		Date Considered 02/06/2008

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	C6	Dressman, D., H. Yan, G. Traverso, K.W. Kinzler, and B. Vogelstein, <i>Transforming single DNA molecules into fluorescent magnetic particles for detection and enumeration of genetic variations</i> . Proceedings of the National Academy of Sciences of the United States of America, 2003. 100(15): p. 8817-8822.
	C7	Brenner, S., et al., <i>Gene expression analysis by massively parallel signature sequencing (MPSS) on microbead arrays</i> . Nature Biotechnology, 2000. 18(6): p. 630-634.
	C8	Liu, S., Y. Shi, W.W. Ja, and R.A. Mathies, <i>Optimization of high-speed DNA sequencing on microfabricated capillary electrophoresis channels</i> . Anal. Chem., 1999. 71: p. 566-573.
	C9	Leamon, J.H., W.L. Lee, K.R. Tartaro, J.R. Lanza, G.J. Sarkis, A.D. deWinder, J. Berka, and K.L. Lohman, <i>A massively parallel Pico Titer Plate (TM) based platform for discrete picoliter-scale polymerase chain reactions</i> . Electrophoresis, 2003. 24: p. 3769-3777.
	C10	Ghadessy, F.J., J.L. Ong, and P. Holliger, <i>Directed evolution of polymerase function by compartmentalized self-replication</i> . PNAS, 2001. 98: p. 4552-4557.
	C11	Rye, H.S., M.A. Quesada, K. Peck, R.A. Mathies, and A.N. Glazer, <i>High-sensitivity two-color detection of double-stranded DNA with a confocal fluorescence gel scanner using ethidium homodimer and thiazole orange</i> . Nucleic Acids Res., 1991. 19: p. 327-333.
	C12	Fleming, N., J. Maynard, L. Tzitzis, J.R. Sampson, and J.P. Cheadle, <i>LD-PCR coupled to long-read direct sequencing: an approach for mutation detection in genes with compact genomic structures</i> . Journal of Biochemical and Biophysical Methods, 2001. 47(1-2): p. 131-136.
	C13	Blazej, R.G., B.M. Paegel, and R.A. Mathies, <i>Polymorphism ratio sequencing: A new approach for single nucleotide polymorphism discovery and genotyping</i> . Genome Research, 2003. 13: p. 287-293.
	C14	Kamei, T., B.M. Paegel, J.R. Scherer, A.M. Skelley, R.A. Street, and R.A. Mathies, <i>Integrated Hydrogenated Amorphous Si Photodiode Detector for Microfluidic Bioanalytical Devices</i> . Analytical Chemistry, 2003. 75: p. 5300-5305.
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	C15	Simpson, P.C., A.T. Woolley, and R.A. Mathies, <i>Microfabrication technology for the production of capillary array electrophoresis chips</i> . Biomedical Microdevices, 1998. 1(1): p. 7-26.
	C16	Paegel, B.M., C.A. Emrich, G.J. Wedemayer, J.R. Scherer, and R.A. Mathies, <i>High-throughput DNA sequencing with a 96-Lane capillary array electrophoresis bioprocessor</i> . Proceedings of the National Academy of Science, U.S.A., 2002. 99: p. 574-579.
	C17	Albarghouthi, M.N., B.A. Buchholz, P.J. Huiberts, T.M. Stein, and A.E. Barron, <i>Poly-N-hydroxyethylacrylamide (polyDuramide): A novel hydrophilic self-coating polymer matrix for DNA sequencing by capillary electrophoresis</i> . Electrophoresis, 2002. 23: p. 1429-1440.
	C18	Kan, C.W., E.A.S. Doherty, and A.E. Barron, <i>A novel thermogelling matrix for microchannel DNA sequencing based on poly-N-alkoxyalkylacrylamide copolymers</i> . Electrophoresis, 2003. 24(24): p. 4161-4169.
	C19	Doherty, E.A.S., C.W. Kan, and A.E. Barron, <i>Sparsely cross-linked "nanogels" for microchannel DNA sequencing</i> . Electrophoresis, 2003. 24(24): p. 4170-4180.
	C20	Giddings, M.C., J. Severin, M. Westphall, J. Wu, and L.M. Smith, <i>A software system for data analysis in automated DNA sequencing</i> . Genome Research, 1998. 8: p. 644-665.
	C21	Ewing, B., L. Hillier, M.C. Wendl, and P. Green, <i>Base-calling of automated sequencer traces using Phred</i> . Genome Research, 1998. 8: p. 175-185.
	C22	Ewing, B. and P. Green, <i>Base-calling of automated sequencer traces using phred. II. Error probabilities</i> . Genome Research, 1998. 8: p. 186-194.
	C23	Buchholz, B.A. and A.E. Barron, <i>The use of light scattering for precise characterization of polymers for DNA sequencing by capillary electrophoresis</i> . Electrophoresis, 2001. 22: p. 4118-4128.
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	C24	Vazquez, M. et al. Electrophoretic injection within microdevices. <i>Analytical Chemistry</i> 74, 1952-1961 (2002).
	C25	Song, H., Tice, J. D. & Ismagilov, R. F. A microfluidic system for controlling reaction networks in time. <i>Angewandte Chemie-International Edition</i> 42, 768-772 (2003).
	C26	Srinivasan, U., Houston, M. R., Howe, R. T. & Maboudian, R. Alkyltrichlorosilane-based self-assembled monolayer films for stiction reduction in silicon micromachines. <i>Journal of Microelectromechanical Systems</i> 7, 252-260 (1998).
	C27	Tice, J. D., Song, H., Lyon, A. D. & Ismagilov, R. F. Formation of droplets and mixing in multiphase microfluidics at low values of the Reynolds and the capillary numbers. <i>Langmuir</i> 19, 9127-9133 (2003).
	C28	Peter C. Simpson, et al., High-throughput genetic analysis using microfabricated 96-sample capillary array electrophoresis microplates, <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 95, pp. 2256-2261, March 1998 Biophysics.
	C29	Pierre J. Obeid, et al., Microfabricated Device for DNA and RNA Amplification by Continuous-Flow Polymerase Chain Reaction and Reverse Transcription-Polymerase Chain Reaction With Cycle Number Selection, <i>Anal. Chem.</i> 2003, Vol. 75, No. 2, January 15, 2003, pp. 288-295.
	C30	Nokyoung Park, et al., Cylindrical Compact Thermal-Cycling Device For Continuous-Flow Polymerase Chain Reaction, <i>Anal. Chem.</i> , Vol. 75, No. 21, November 1, 2003, pp. 6029-6033.
	C31	Mario Curcio, et al., Continuous Segmented-Flow Polymerase Chain Reaction for High-Throughput Miniaturized DNA Amplification, <i>Anal. Chem.</i> , Vol. 75, No. 1, January 1, 2003, pp. 1-7.
	C32	Office Action mailed July 12, 2007 in U.S. Appln. No. 10/750,533, filed December 29, 2003.
	C33	Office Action mailed April 27, 2007 in U.S. Appln. No. 11/139,018, filed May 25, 2005.
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